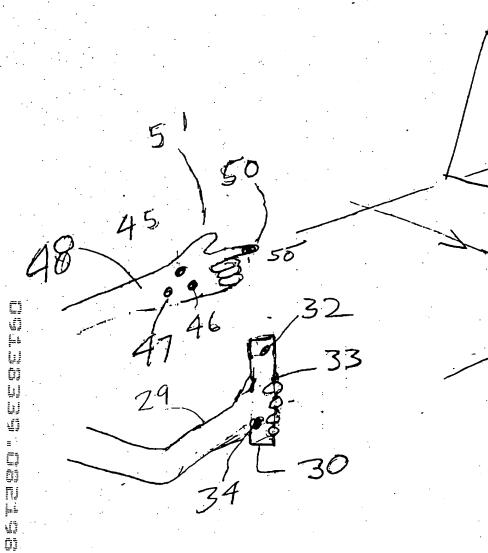
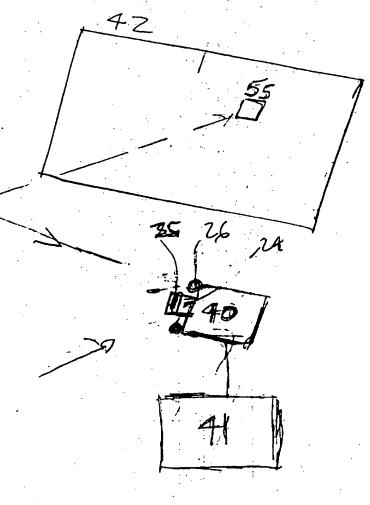
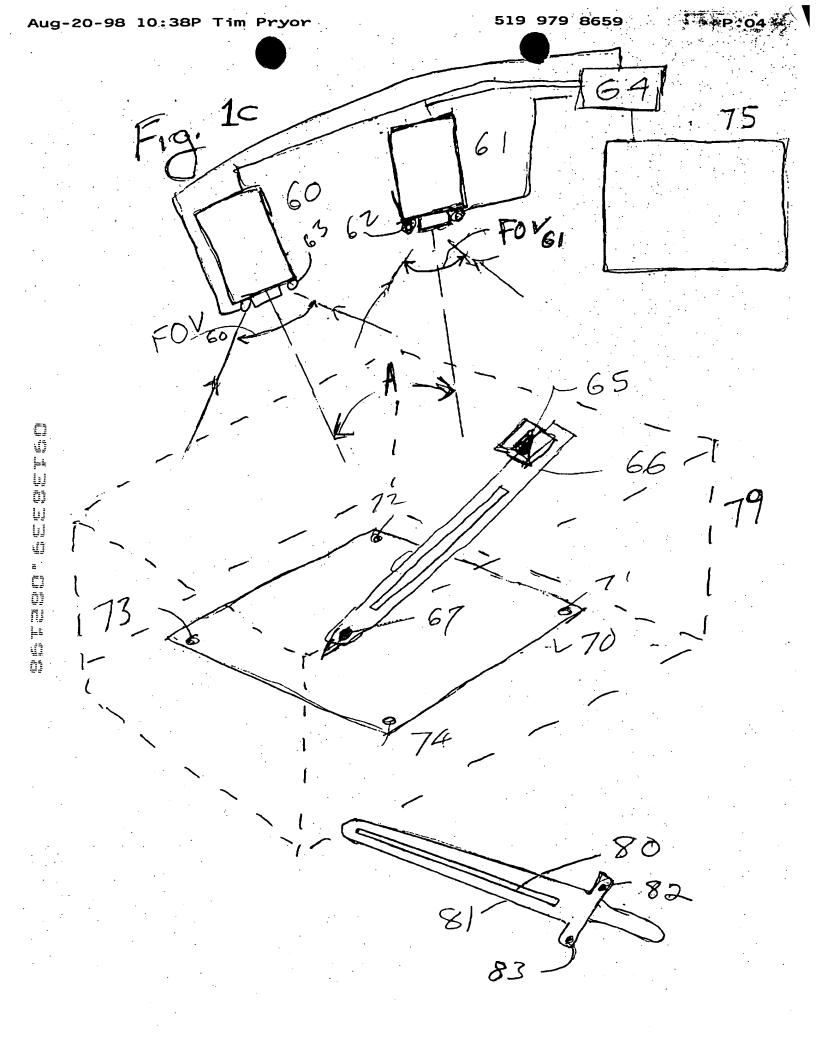


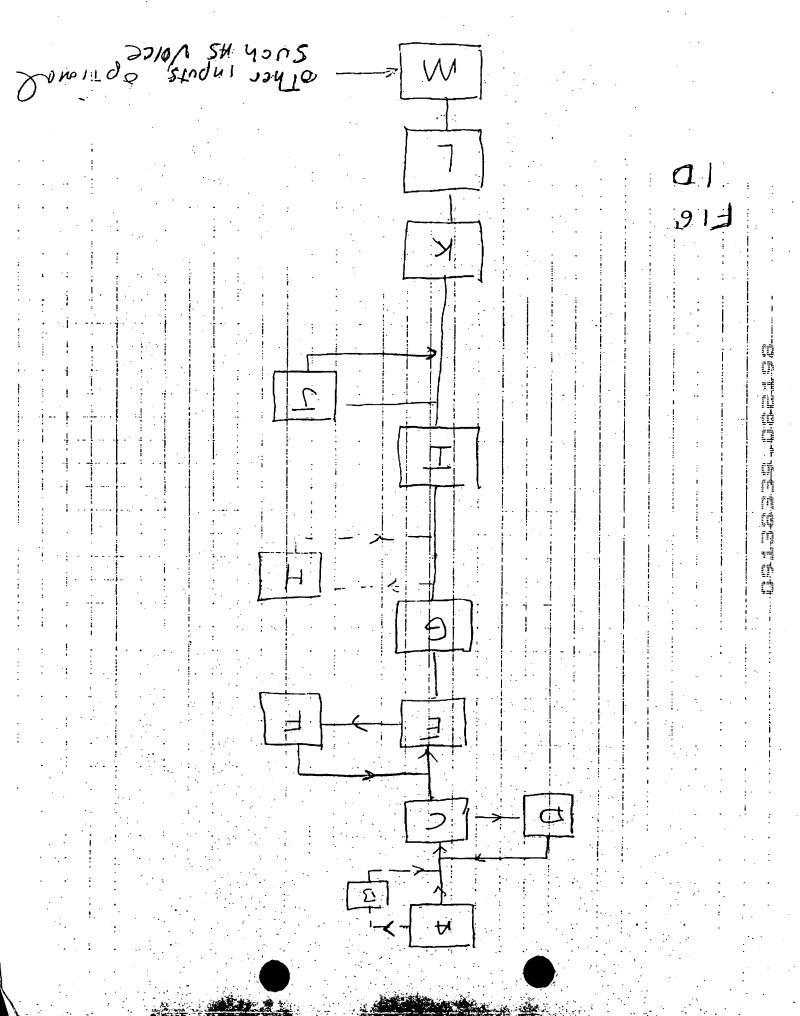
FIGURE &B



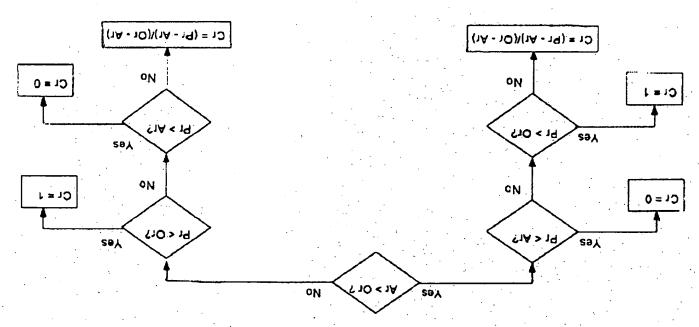


Fa 1B









Cr is the red component of the color adjusted to be between A and O Pr is the red component of the pixel color

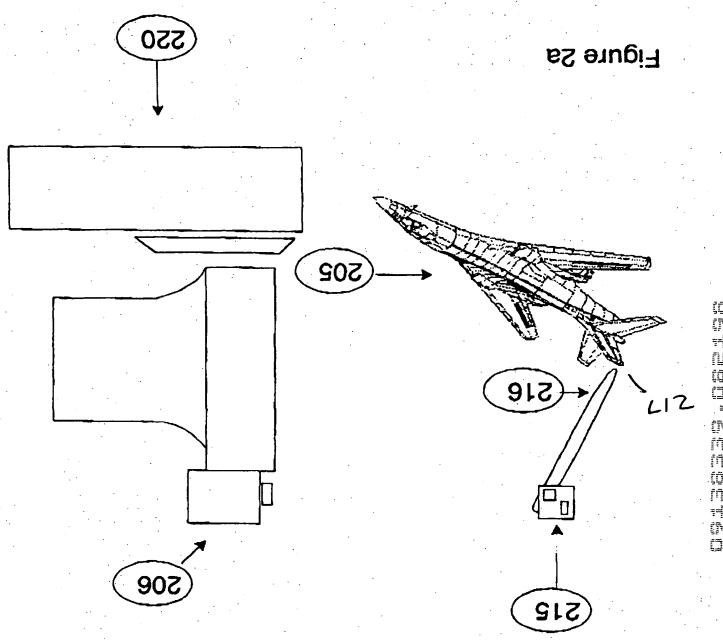
e e e e e e e

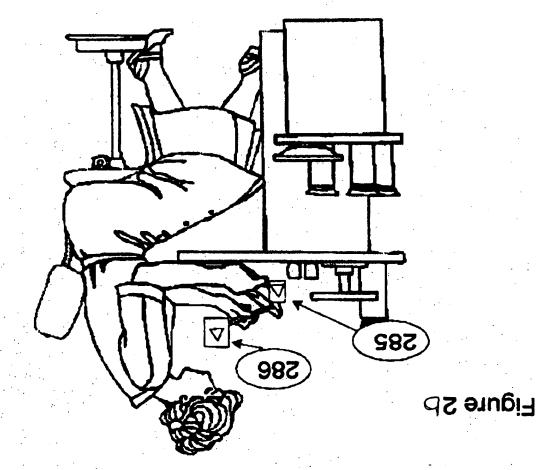
Or is the red component of the orange color

Ar is the red component of the agua color

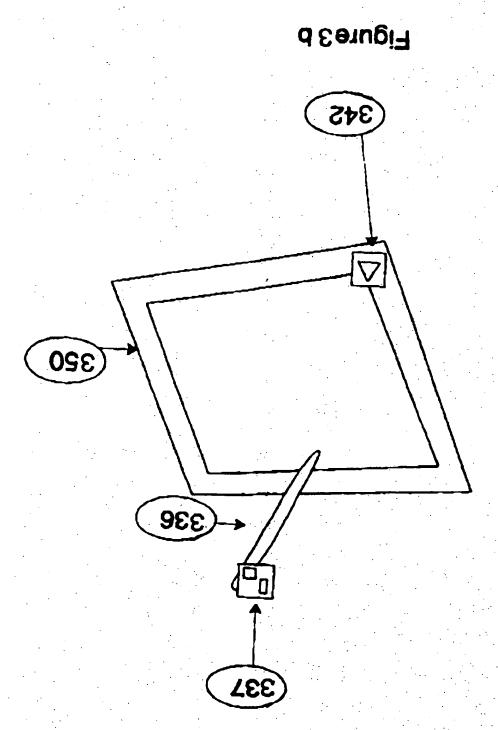
Here, the red component is used. The same process can be used for the preen and blue components as well. Mapping one RGB component of a color

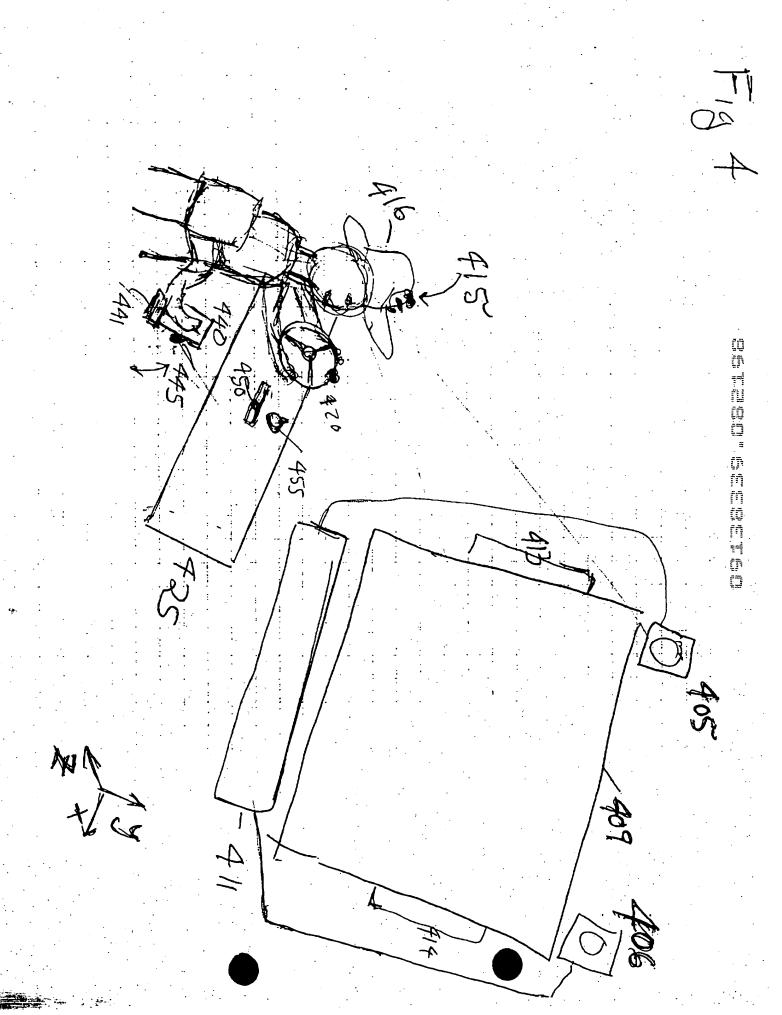


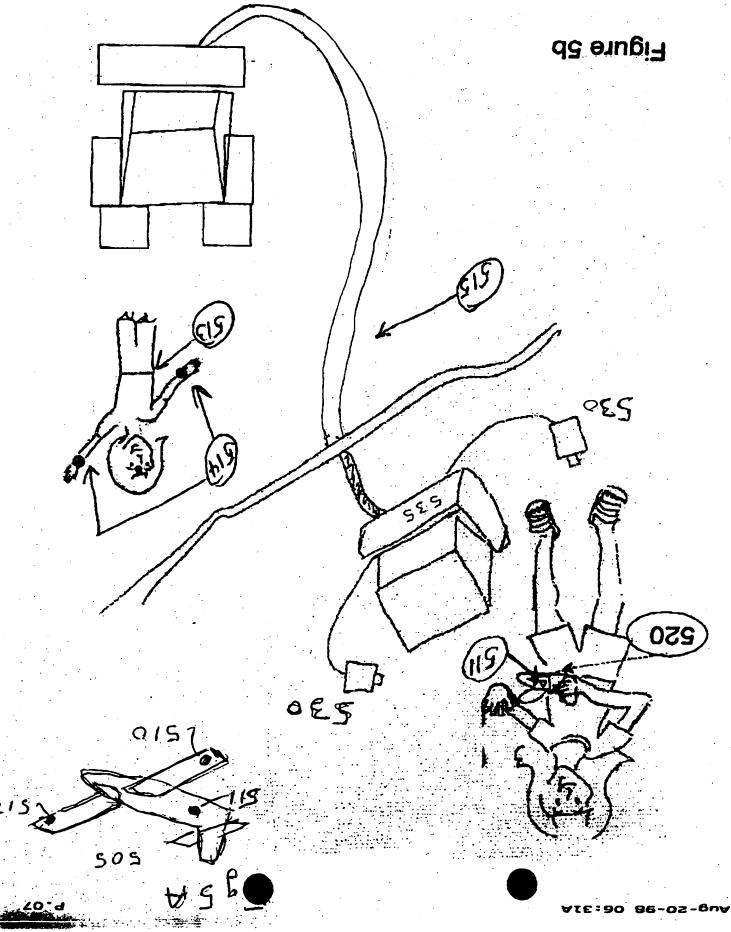




Left with an even party was over 1 mg to a feet of the first all the factors and the first and the factors and







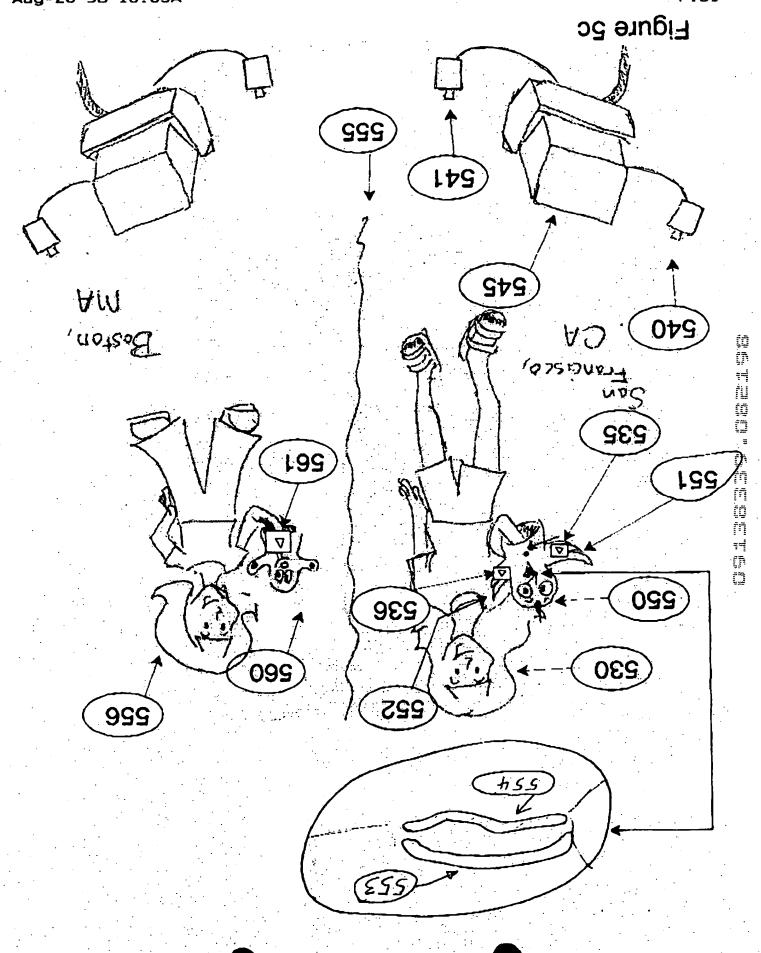
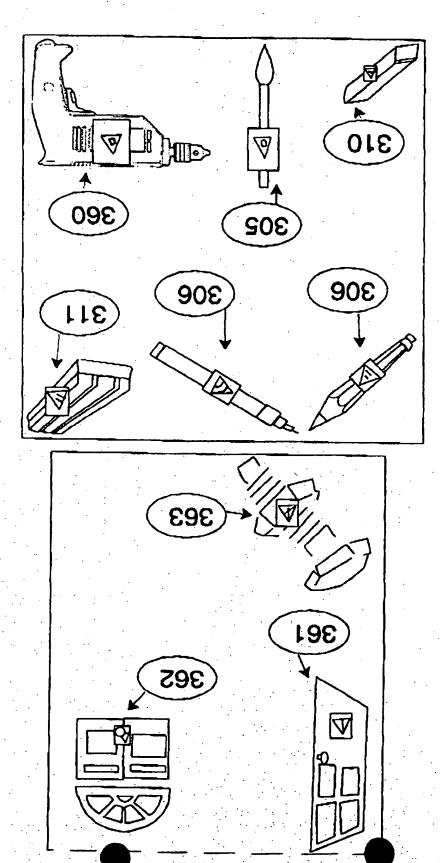
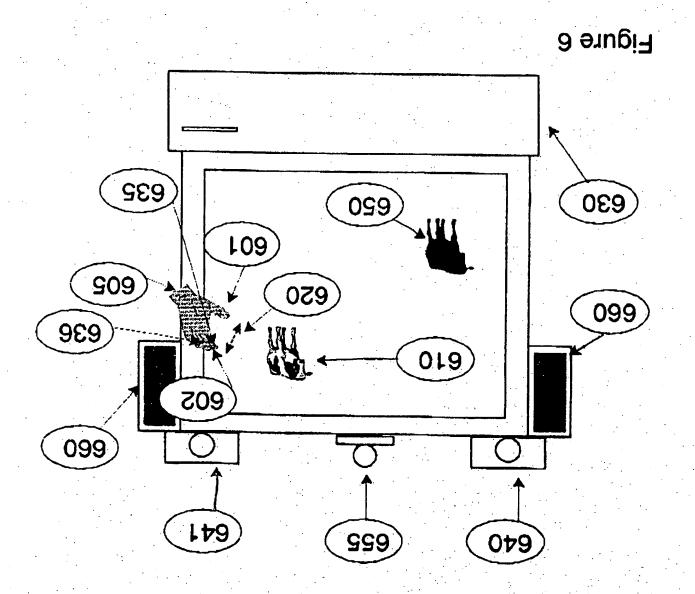


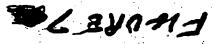
Figure 3a



Aug-19-98 03:26P



Apply conversion table output to a computer program either directly or via link such as linemica. oldsholmo conversion table allows users thexibility such to define the path pattern that he/she finds most aliased by the targeted rool or its corresponding functions or parameters. A user defined conversion table output can be used to define program commands, or redeline the object that is macro inlustions, object selections, function calls, parameter selections, etc., in other words, the Input the Quants to the conversion table and output conceponding program menu selections. IDs. Associate a unique number [refer to as a Quant] to the absolute or relative path information. dimensional data (location, orientation, and time) of each target and their corresponding work tool If this is Objectedats, find the best match of a target path or set of target paths including the seven information beyond that needed for the path to define control parameters. If this is Pathdata, convert it to the appropriate task path information and use the extra target Sk 9212 instructions (refer to as Objectdata). All other combinations identify input parameters or objects or functions or program. .[दाञ्जताह्य थ्ड श क्षेत्रण] क्ष्यंक्राक्राणीतां 1. One unique button/path combination determinet path location, orientation and timing. orientation, and timing patterns) Distingulan unique combinations of interrupt buttons and target path information (location. Check to see if the any interrupt button has been changed. If no, repeat first steps, else go on. Step 6 information is also converted the proper application coordinates. Store this information. to the target position and another vector calculation is used to modify the orientation. This Conspute the location and orientation of the work tool's "setion tip" by applying an offset vector Step 5 table pattern matching techniques. Descrimine x, y, z, and orientation angles a1, a3 of targets using photogramatic or lookup p dans stored in a table. Each pattern stored in the table ture a corresponding ID number. orientation information. This is done by finding the best match of this target information to that Determine the ID of the work tool from the unique target and subtarget color, shape, and Sicp 3 Capture "interrupt member" positions Z days field from the rest of the image. Store the pixels that make up each target. Capture pixel field of every camera for new video frame. Distinguish every target in each camera Step 1



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location of the object, update the target, compute the orientation and Start the camera system; acquire the attached object holder where the target is the ID of the attachment location of the Enter the object ID, the target ID, and Remove target Camera roughly facing the lens plane of the noistnaino na ritim amulov tagian computer database holder so that the target is within the location of the baseboard, update the Affach appropriate target to object target, compute the orientation and Start the camera system, acquire the desired position Rotate and translate object holder to location on the baseboard and the ID of the target attachment Attach object holder to baseboard Enter the baseboard iD, the target ID, Attach object to object holder facing the lens plane of the camera volume with an orientation roughly that the target is within the target Attach appropriate target to baseboard **S** Seniniama) **200jdO** ON set of objects with freeform attachments Preregister the location and orientation of a

Flow chart 8 🕽 😭

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P.16

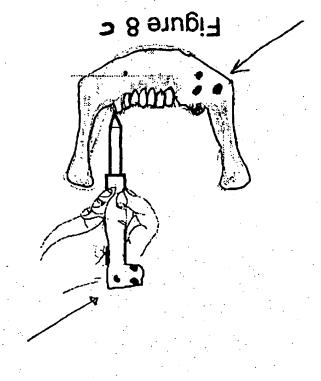
P.03

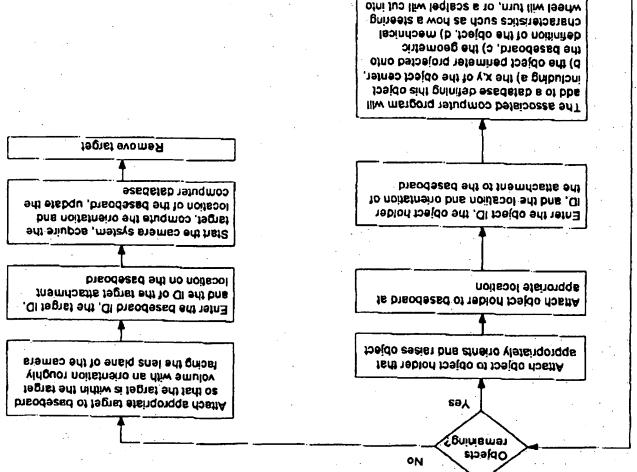
Surgery

Add to a database defining this object center, including a) the x,y of the object center by the object perimeter projected onto the baseboard, c) the geometric definition of the object, d) mechnical characteristics such as how a steering wheel will turn, or a scalpel will cut into such as quick look up of drugs that can such as quick look up of drugs that can be used to combat a leaking colon, t) be used to compate programs such as those that could be used to guide a those that could be used to guide a troop of controlled laproscopic heaft

Remove target

computer database





Preregister the location and orientation of a set of objects with fixed attachments

Flow chart 8 F

SUIGBIY

flesh till it hits bone, e) associated data such as quick look up of drugs that can be used to combat a leaking colon, f) associated computer programs such as those that could be used to guide a trobot controlled laproscopic heart robot controlled laproscopic heart

P.21

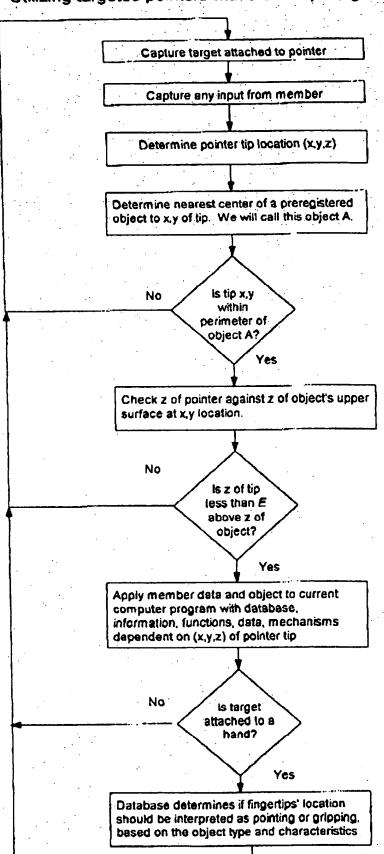
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Chart 8JF Utilizing targeted pointers with a set of preregistered objects



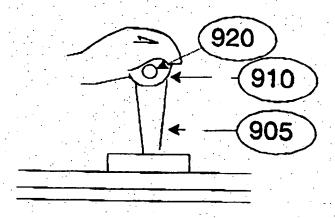


Figure 9a

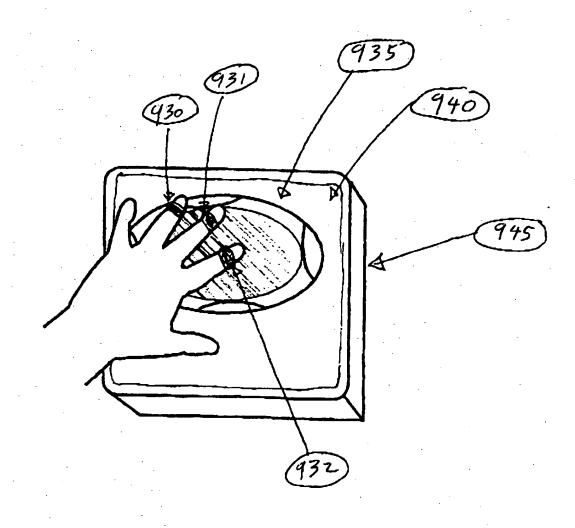


Figure 9b

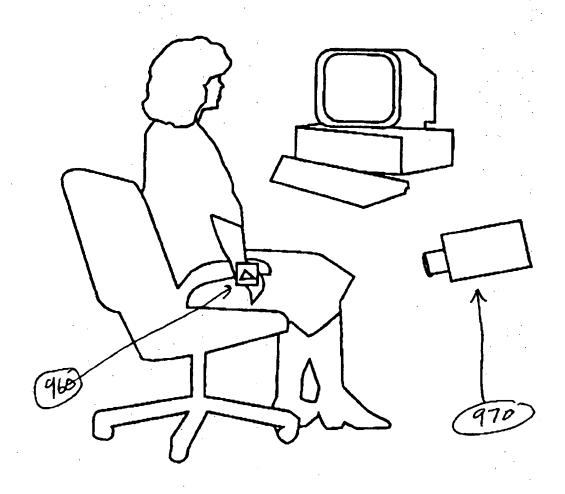
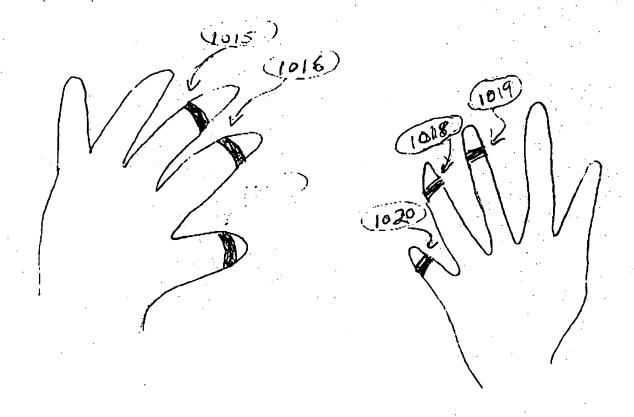


Figure 9c



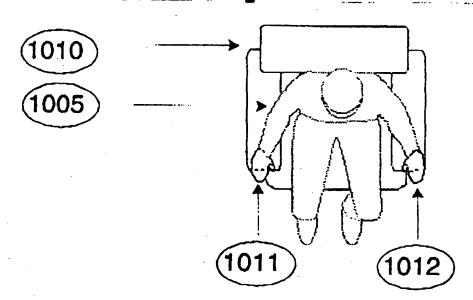
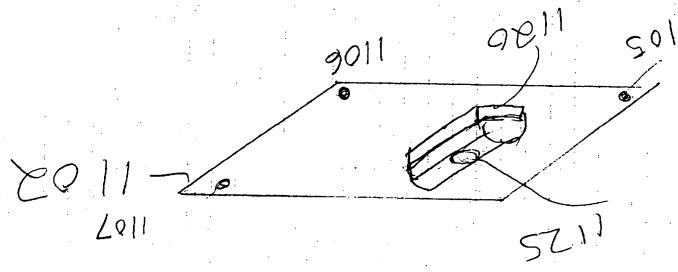
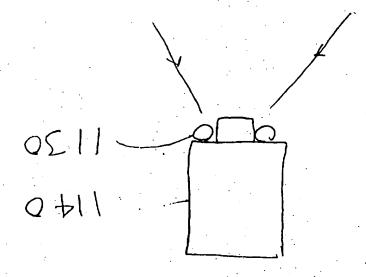
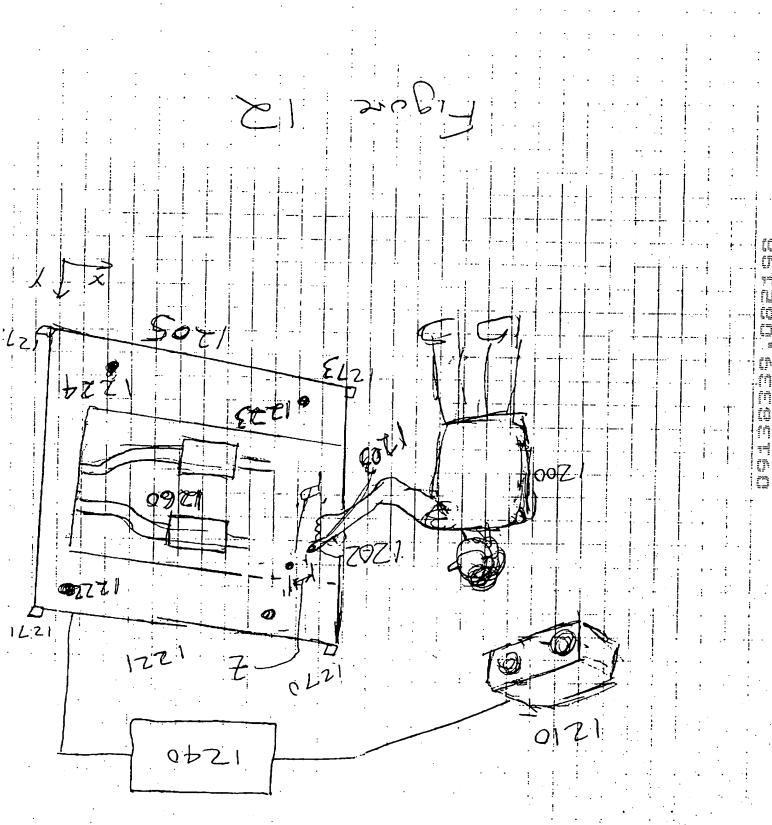


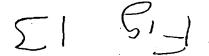
Figure 10

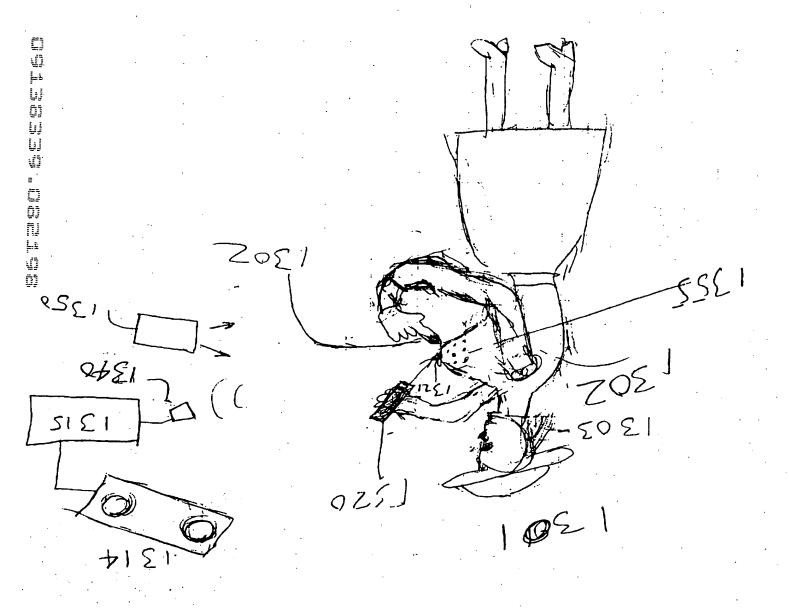
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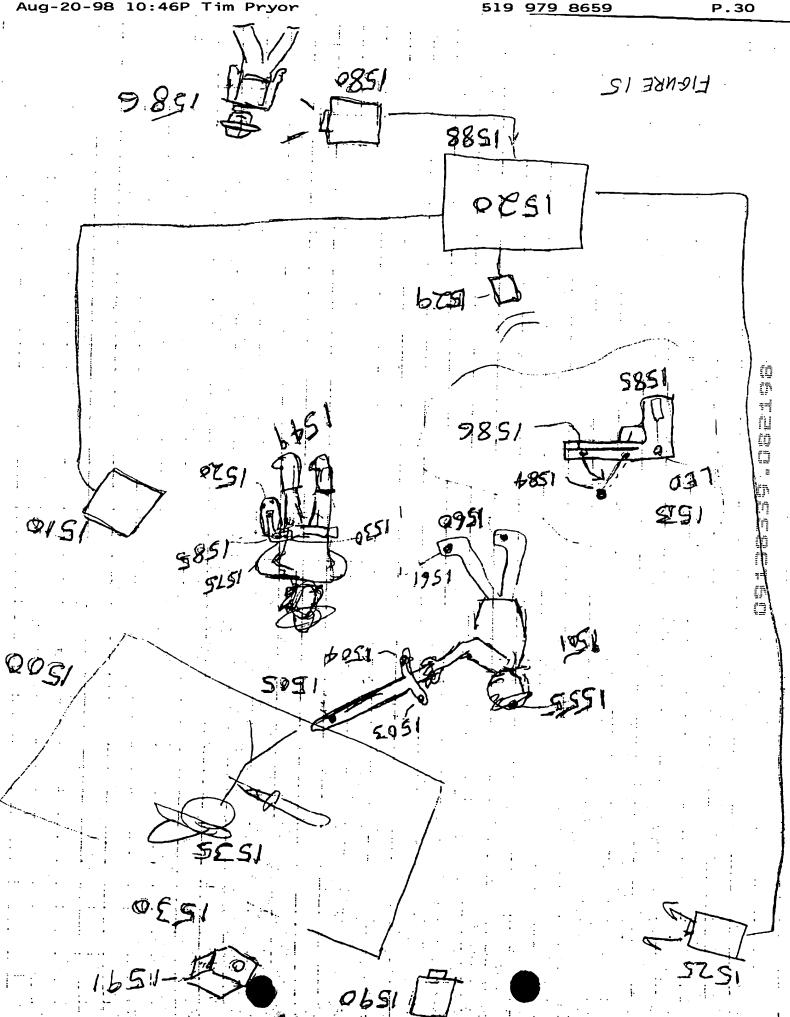


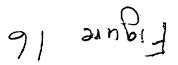


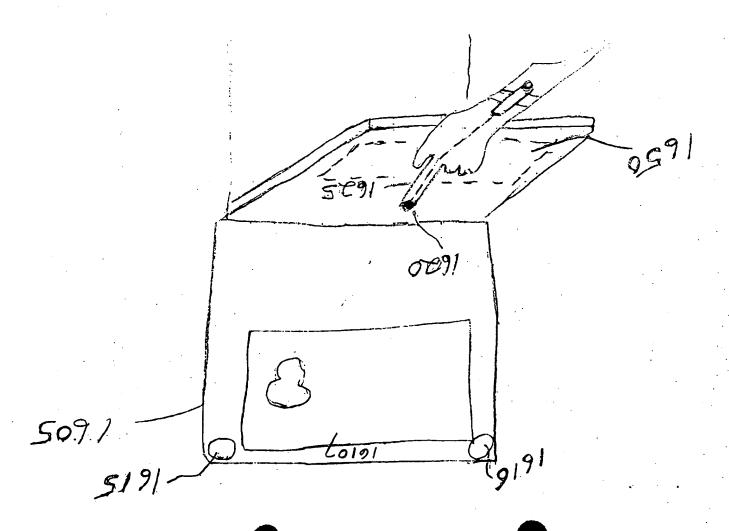




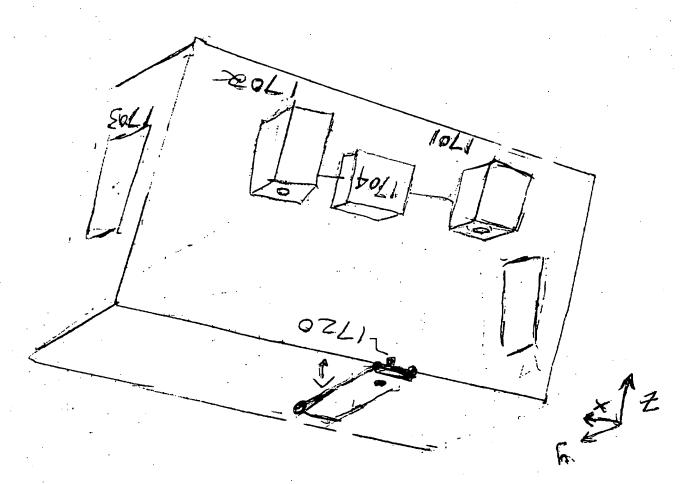




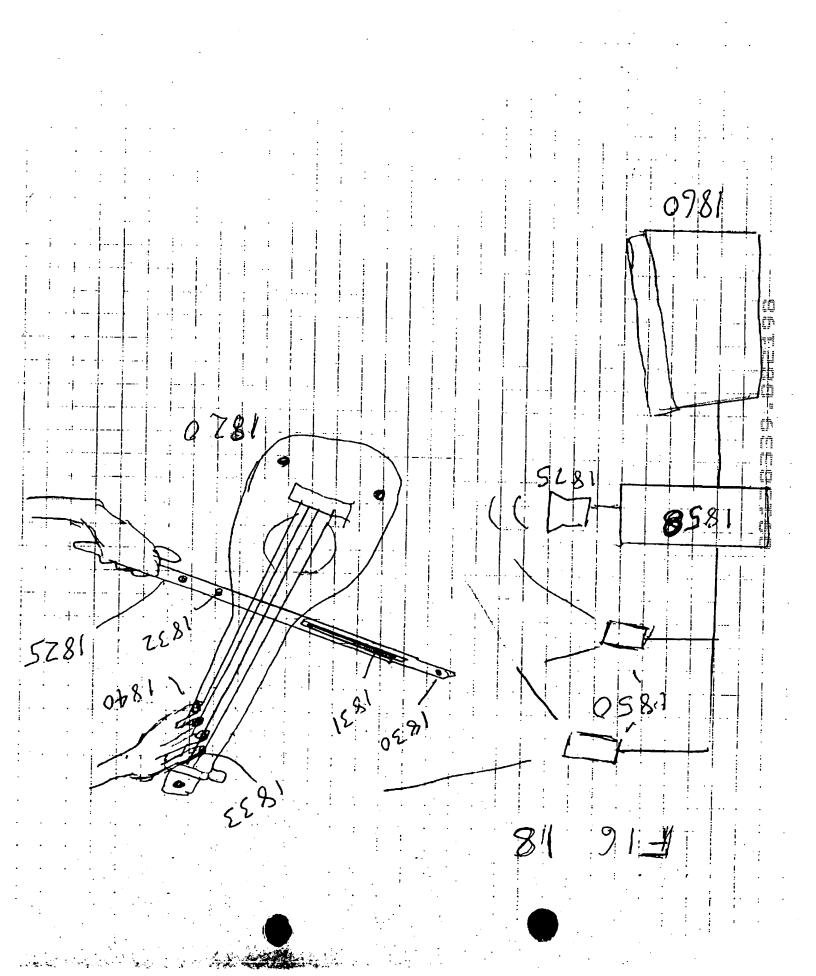


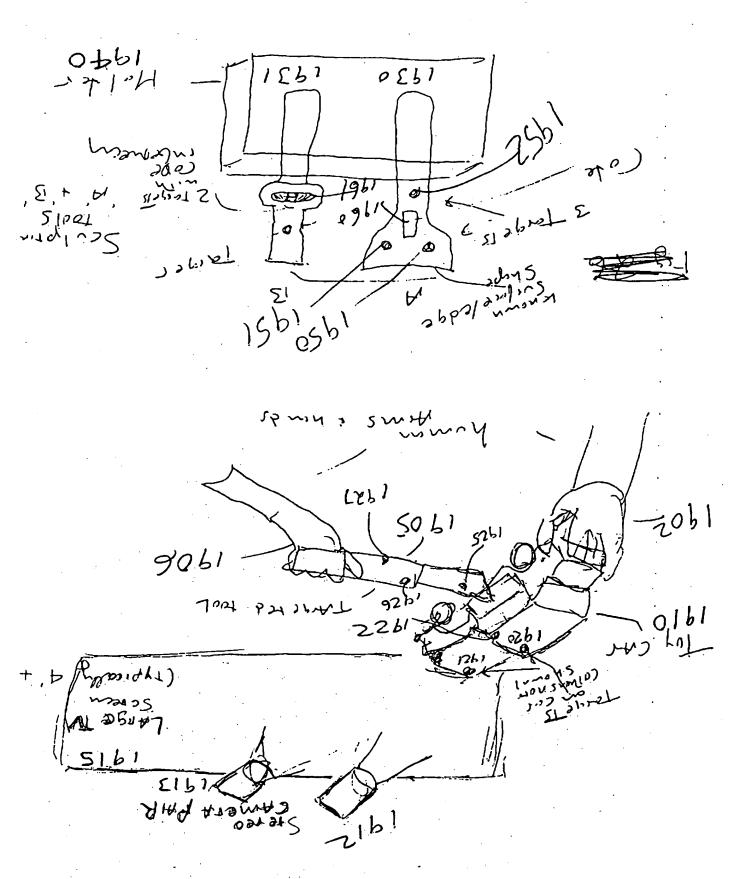


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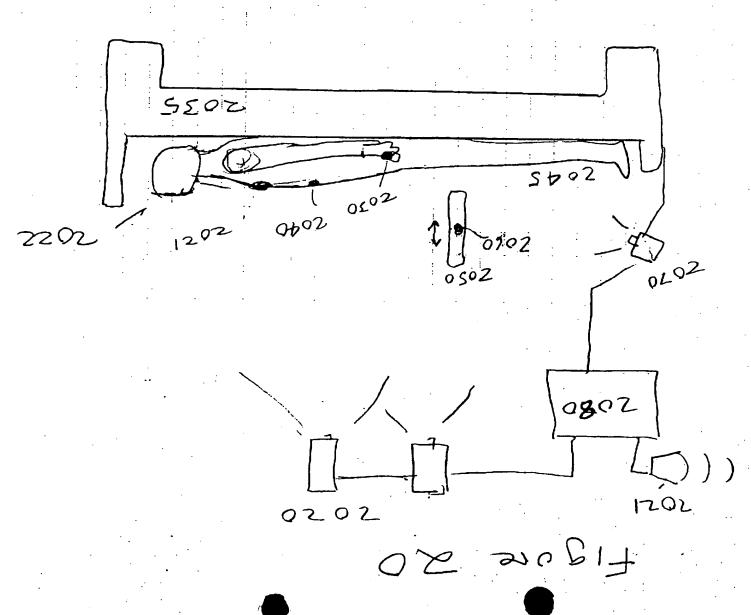


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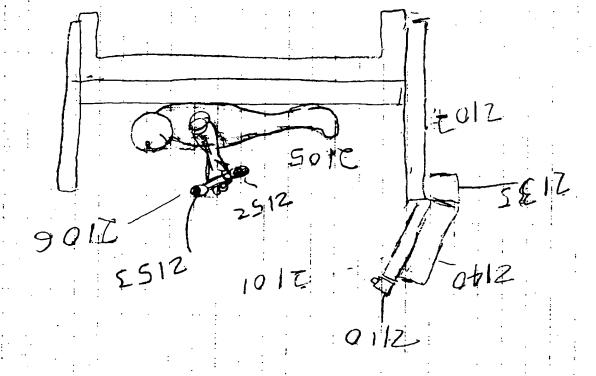




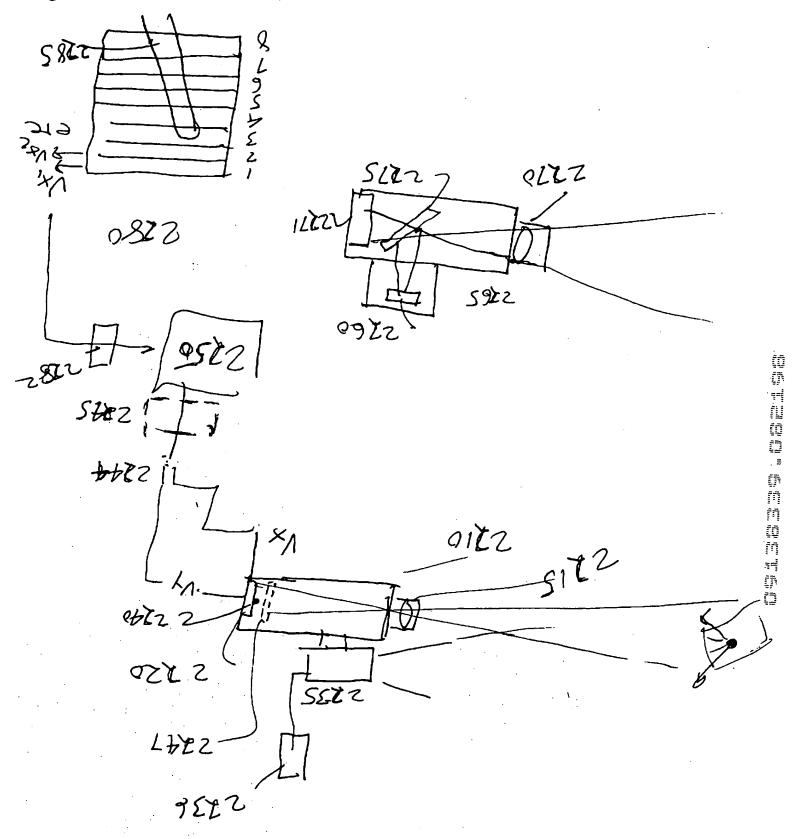
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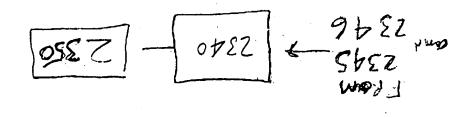


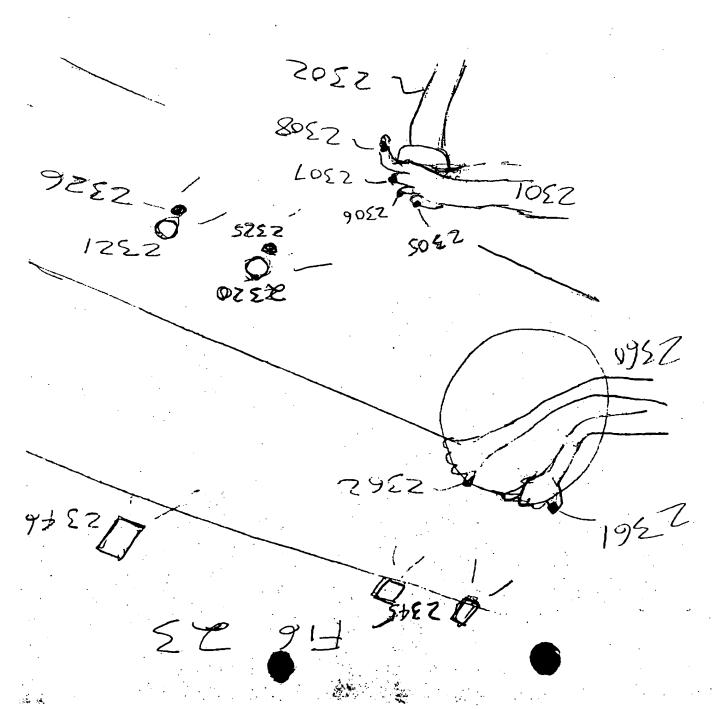


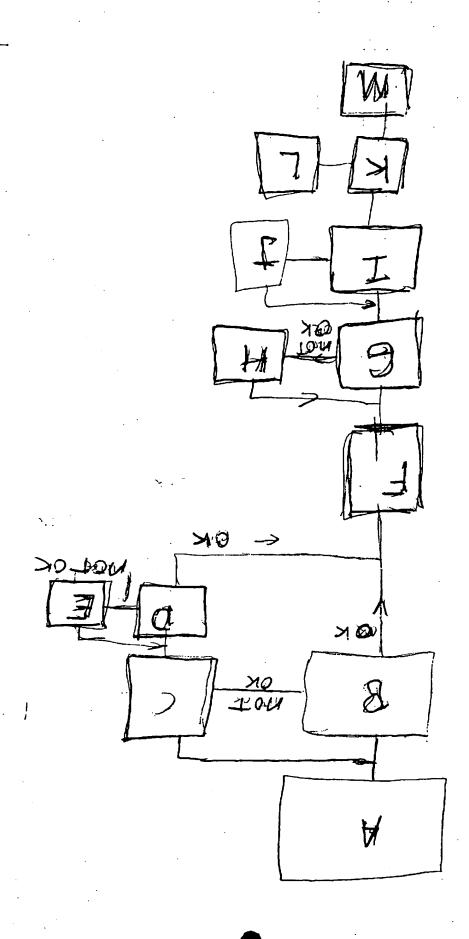
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